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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or age	nt's file reference	FOR FURTHER AC	See Notification	on of Transmittal of International			
••		•	FOR FURTHER AC	Preliminary Ex	camination Report (Form PCT/IPEA/416)			
Internation	al appli	cation No.	International filing date (day/month/year)	Priority date (day/month/year)			
PCT/EP 03/06648			25.06.2003		05.07.2002			
Internation	al Pate	nt Classification (IPC) or bo	oth national classification a	nd IPC				
A61K7/0	6							
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Applicant								
UNILEVE	ER N.	V. et al.						
1. This	interr	national preliminary exar	nination report has bee	n prepared by this Inte	ernational Preliminary Examining			
Auti	Authority and is transmitted to the applicant according to Article 36.							
			•	•				
2. This	2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
				•				
\boxtimes	This	report is also accompar	nied by ANNEXES, i.e.	sheets of the descript	lon, claims and/or drawings which have rectifications made before this Authority			
	(see	Rule 70.16 and Section	607 of the Administrat	ive Instructions under	the PCT).			
The	se anr	nexes consist of a total of	of 7 sheets.					
•			•	El	PO - DG 1			
			<u> </u>	. 3	0, 07, 2004			
3. This	repoi	t contains indications re	lating to the following it	ems:				
1	図	Decis of the entries			(107)			
1 11		Basis of the opinion Priority						
111		•	opinion with regard to n	ovelty, inventive step	and industrial applicability			
IV		Lack of unity of inventi	-	, ,				
٧								
V!		Certain documents cite						
VII		Certain defects in the international application						
VIII		Certain observations on the international application						
					·			
Date of su	bmissio	on of the demand		Date of completion of t	his report			
04 04 05			<i>:</i>					
21.01.20	104			05.07.2004				
Name and	mailin	address of the internation	at	Authorized Officer				
	/ exam	ining authority:			John Marie Comment			
European Patent Office D-80298 Munich				Donovan-Beerma	nn, T			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06648

l.	Bas	sis of the report						
1.	the	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):						
	Des	scription, Pages						
	3, 4, 7-24		as originally filed					
1, 2, 5, 6			received on 07.06.2004 with letter of 02.06.2004					
Claims, Numbers								
	1-1		received on 07.06.2004 with letter of 02.06.2004					
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item.							
These elements were available or fumished to this Authority in the following language: , which is:								
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of publ	lication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).					
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application. International preliminary examination was carried out on the basis of the sequence listing: 								
		contained in the inte	mational application in written form.					
	Π.		e international application in computer readable form.					
		•	ntly to this Authority in written form.					
		furnished subsequer	ntly to this Authority in computer readable form.					
		The statement that the in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.					
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
The amendments have resulted in the cancellation of:								
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)						

6. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06648

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-15

No: Claims

Inventive step (IS)

Yes: Claims

1-15

No: Claims

Industrial applicability (IA)

Yes: Claims

1-15

No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY

International application No. PCT/EP 03/06648

EXAMINATION REPORT - SEPARATE SHEET

Ad Section V:

The present application relates to methods of treating hair using a leave-on treatment composition containing i) citric acid, tartaric acid, their salts or mixtures thereof, and ii) a xanthine compound, wherein the ratio of i) to ii) is from 1:0.01 to 0.01:1. Preferred ii) are caffeine, dyphylline, theophylline, cafaminol, aminophylline or theobromine.

The use of the above compositions for styling hair is claimed, as is the use of i) an αhydroxy acid, its salts or mixtures thereof, and ii) a xanthine, substituted xanthine or mixtures thereof for lengthening hair, decreasing the volume of hair or increasing the high humidity style retention of hair.

The following documents may be referred to in the present procedure:

D1: EP-A-0 325 969 D2: EP-A-0 728 472 D3: FR-A-2 751 541 D4: US H1480 H

D5: WO 96 10387 A

The amendments to the claims and description are considered allowable according to Art.34(2)(b) PCT in that they do not extend the scope of the application beyond that of the disclosure as originally filed.

Compositions containing a xanthine and an acid are known eg. from D1 which concerns the use of xanthine with salicylic acid for the treatment of alopecia.

D3 describes after-shampoo compositions for the treatment of hair to prevent/cure alopecia, which contain caffeine, with citric acid as a pH adjuster (see example 4). The level of citric acid is not given.

The prior art does not describe the present compositions for use in the styling or lengthening of hair, decreasing volume of hair or increasing the high humidity style retention of hair.

The methods and uses presently claimed are therefore novel and inventive with regard to the prior art (Art.33(2) and 33(3) PCT.